

LELAND H. KIMBALL
CONSULTING ENGINEER
SALT LAKE CITY

July 13, 1928.

Hon. George M. Bacon, State Engineer,
Capitol Building, City.

Dear Sir:

In harmony with our conversation held with Mr. Skeen, I have been to Emery and have made some study of the situation between the Emery Canal and the Independent Canal and Reservoir Company.

The following agreement was accepted without reservation by both parties as the method by which the reservoir water of the Independent Company was to be delivered to them. This arrangement is as follows: A line is to be drawn from the point on the graph representing the stage of the water in the creek before the arrival of reservoir water, to the point representing the stage of the water in the creek when the reservoir water stops. All water shown as having been diverted by the Emery Company in excess of the flow of the stream as represented by this line to be replaced by the Emery Company out of natural flow.

In my opinion the conditions under which the weir in the Emery Company's canal is operating make the regular cippoletti rating which is being used in determining the discharge worthless.

It is my suggestion that the weir be rated by a series of meter measurements and a curve plotted of the actual discharge. At the time this is done a series of meter measurements should also be made to determine the proper location of the splitter in the control works where the water is turned to the Independent Company.

I believe the recommendations sited above, if carried out will eliminate any further question as to the method of delivery and measurement of water.

I am handing you herewith the tabulated lists of the lands under the Emery,, taken from the county tax records. These lists are of three different dates, 1903-~~1907~~-1928. The 1907 carries no information as to cultivated, uncultivated, or waste land. The 1903 lists represents the amount of land under the canal at the time of the decree and I believe with a reduction of about 20% for uncultivated and waste lands, roads, buildings, stack yards, etc. might fairly represent the amount of land actually under cultivation at that time. The 1928 list is classified and self-explanatory.

From what observations I have made on the ground, I believe that a head-gate duty of 3 acre feet per acre should be ample for the lands under the Emery Canal. I was informed that about 60 % of the cultivated area is in grain, much of which has already had its last irrigation and that about $2\frac{1}{2}$ acre feet per acre had already been diverted for these lands at the time of my visit on July 7.

The establishment of a reasonable duty of water on the lands under the Emery Canal will go far towards satisfying the needs of the Independent Canal Company.

Hoping this information will be of some assistance, I am,

Respectfully yours,

Island H. K. ...

P.S. I am also inclosing copies of the Art. of Incorporation of the Emery Co. for your information.